April 15, 2003 Supersedes October 2, 2001

(See Specifications for Complete Details.)

TEST LIMITS April 2003	Spec #	F&T A	F&T C	LA Abrasion	Absorption	Chert	Shale	Clay Lumps	Plastic Index	Mortar Strength	Al ₂ O ₃ Limit	Pore Index	Gradation Number	Certified Inspection
Fine Aggregat	e for PCC													<u>Gradations</u>
PCC	4110.00			m 40% betw n is 80% or l	een sieves ess passing th	e #16 si	2 eve and	50% or le	ss passin	1.5 g the #30 si	eve, no n	nortar str	1 rength is requ	1/1500 uired.
		Annua	al test re	quiring morta	ar strength of 1	1.5 or gre		d a finenes	ss modulu		greater f	or contin	nued approva	
PCC, Class L	4111.00	Nata	Marriage	450/ batu			2			1.3			1	1/1500
Mortar	4112.00			m 45% betw coal not to e			2			0.9			2	1/1500
Coarse Aggre	gate for PC													
Crushed Stone	4115.00				nose retained of und chert on 3								eeze/thaw tes	sts.
-Structural		6		50		2	1	0.5		•	0.5		3-5	1/1500
-Nonstructural		6		50		3	1	0.5			0.5		3-5	1/1500
Gravel	4115.00													
-Structural		6		35		2	1	0.5					3-5	1/1500
-Nonstructural		6		35		3	1	0.5					3-5	1/1500
Deck Overlay	4115.06	4 <u>Note</u> :	Chert +	40 shale + coal	2.5 + iron not to e	0.5 exceed 1	%.				0.4		6	1/1500
Class V	4117.00	6		40			2 (+#1	,		1.5			7	1/1500
Aggregate Class V (Fine Limeston	4117.03 e)		Note: Coarse Aggregates as in 4115 (except abrasion) and Fine Aggregates as in 4110.00 and 4111.00 Note: Only from sources acceptable as coarse aggregate									8	1/1500	

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TEST LIMITS	Spec	F&T	F&T	LA	Absorption	Chert	Shale	Clay	Plastic	Mortar	Al ₂ O ₃	Pore	Gradation	Certified
April 2003	#	Α	С	Abrasion				Lumps	Index	Strength	Limit	Index	Number	Inspection
Granular Surf			ı	l					l	l	1			
Aggr. For Granular Shoulders	4120.0	2 <u>N</u>	ote: A gra	vel/limestone	e aggregate m	ixture ma	ay be allo	owed. See	Specifica	tion 4120.02	? for detai	ls.	Per 4120.02	1/3000
Class C	4120.0		15				10	15					10	1/3000
Gravel					umps + particl	es passi	ing #200	sieve not	to exceed	15%.				
Class A Crushed	4120.0	4	15	45				4					11	1/3000
Stone		<u>N</u> 5!		noulders only	y; material with	n Al 2O3 r	ot excee	eding 0.7 o	or A-freeze	not exceed	ing 10 ma	y have a	n abrasion m	naximum of
Class B	4120.0	5	20	55				4					11	1/3000
Crushed Stone		N	ote: "C" Fi	reeze + Ahra	sion not to ex	reed 65º	%							
Class D	4120.0	_	<u> </u>	CC2C - 71010	iolori riot to ext	<u> </u>	70							1/3000
Crushed														
Stone				eeze, Abras	ion, and Grada	ation to I	oe specif	ied by Cor	ntract Doc	uments.				
Paved Shoulders	4120.0	7	15	45				4					16	1/3000
Fillets		N	ote: Mate	ial with Al ₂ O	3 not exceeding	g 0.7 or	A-freeze	not excee	eding 10 m	nay have an	abrasion	maximu	m of 55.	
Granular Subl														
	4121.0			50							1.5		12	1/3000
					rushed PCC, sor crushed sto			rushed sto	one may b	e used.				
Crushed Ston														
Macadam	4122.0		10	45			_						13	
Stone		No	te: Choke	stone produ	iced from Mac	adam ha	as a Cert	ified Inspe	ection of 1/	3000.			(Visual)	

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TEST LIMITS April 2003	Spec #	F&T A	F&T C	LA Abrasion	Absorption	Chert	Shale	Clay Lumps	Plastic Index	Mortar Strength	Al ₂ O ₃ Limit	Pore Index	Gradation Number	Certified Inspection
Modified Sub	hase													
inicalited Gab	4123.00		15	45							4.7(-#4	0)	14	1/3000
		Note	e: Mater	ial with Al ₂ O	not exceedin	a 0 7 (+4	1) or A-fr	eeze not e	exceeding	ı 10 may ha	ve an abi	rasion m	aximum of 55	5
					of +3/8" mus							40.011	arin or or	
Cover Aggree	ate	·												
Cover Aggrega	ate for Bitu	ıminous	Seal Co											
	4125.01		10	40			5						1,19-21	1/1500
			<u>e</u> : Friction	on Type 4D c	or better, Shale	on San	d Cover	Aggregate	e shall no	t exceed 2%	6.			
Aggregate for				40			5				0.7		22	4/4500
	4125.01		a. Erictic	40 on Type 4 or	better, sand e	auivalen	•	acc than /	15		0.7		23	1/1500
Aggregate for	r Tyne B F		<u>. 1 110tic</u>	on Type + or	better, sand e	quivaleri	t Of HOLE	- Inan	1 0.					
Type B	, , , , ,													
Primary	4126.02	25	10	45	6.0						1.5	F	Per Form 955	1/1500
Non-Primary	4126.02	45	10	45	6.0						2.5	F	Per Form 955	1/1500
Composite Ag			<u> </u>									_		
Type B	4126.04		T. C					1.50	4		#40 ·		Per Form 955	Per IM 204
Cooroo Aggre	mata for I		<u>e</u> : The fi	ne portion of	f combined ma	iterials s	nall not e	exceed 5%	∕₀ snale re	tained on th	ie #16 sie	eve.		
Coarse Aggre Type A	4127.00			45	6.0			0.5			0.7		er Form 955	1/1500
Type A	7127.00	10		73	0.0			0.5			0.7		er i omi 955	171300
Fine Aggrega	te for HM	Α												
Type A	4127.03							0% on 1	1.5"			F	Per Form 955	1/1500
		Note	e: Crush	ned fine aggr	egate shall be	produce	ed from s	ources m	eetina fre	eze/thaw ar	nd abrasio	on loss r	equirements	for coarse
				for ACC.	egate criail be	p. 00000		23,000 111	comig no		45.461	1000 1	54311011101110	
Combination	of Materia	als												
	4127.05		e: The fi	ne portion of	f combined ma	iterials s	hall not e	exceed 2%	√ shale re	tained on th	ne #16 sie	eve. F	er Form 955	Per IM 204
Type A	4127.05	Note	e: The fi	ne portion of	f combined ma	iterials s	hall not e	exceed 2%	% shale re	tained on th	ne #16 sie	eve. F	er Form 955	Per II

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30.03 1 30.04	0* 5** 0* 5** 10	50 50	(*Primary	/**N 0 0 0		l	1		l .		1	
30.03 1 30.04	10	50 50	(*Primary/	/**Nlan n								
30.04	10	50		/***INON-pi	rimary)				0.7	25	Visual	
	10								0.7	25	Visual	
30 04 1		50									Visual	
,	0	50							0.7	25	Visual	
1	lote: See	Specification	4130.01 for be	edding pl	ane/con	crete slab	thickness	requireme	nts.			
30.05	15	50				5					Visual	
31.00 1	0	45			5 (+#16))			0.7		29	1/1500
1	Note: Mate	rial shall be f	ree of visible c	lay and o	objection	able clay	coating.					
_						•						
32.02											30,31	1/3000
32.03									10		31	1/3000
N	lote: Carb	on of no more	e than 1% on f	raction p	assing t	he #40 sie	eve.					
33.00						4					32	1/3000
N	lote: "C" F	reeze and Al	orasion require	ements a	re equiv	alent to th	ose of eith	ner 4120.04	or 4120.	05.		
1	Note: Recycled PCC must meet gradation and sampling frequency of the intended product.											
ite N	Note: Recv	cled compos	ite pavement r	nust mee	et gradat	tion and s	ampling fr	equency of	the inten	ded prod	duct.	
3:3:	0.05 1.00 1 2.02 2.03 1 3.00 1	1.00 10 Note: Mate 2.02 2.03 Note: Carb 3.00 Note: "C" F Note: Recy	1.00 10 45 Note: Material shall be find the sha	1.00 10 45 Note: Material shall be free of visible of the control	1.00 10 45 Note: Material shall be free of visible clay and or 2.02 2.03 Note: Carbon of no more than 1% on fraction position of the control	1.00 10 45 5 (+#16 Note: Material shall be free of visible clay and objection 2.02 2.03 Note: Carbon of no more than 1% on fraction passing to the state of th	2.02 Note: Carbon of no more than 1% on fraction passing the #40 signature. Note: "C" Freeze and Abrasion requirements are equivalent to the Note: Recycled PCC must meet gradation and sampling frequen	1.00 10 45 5 (+#16) Note: Material shall be free of visible clay and objectionable clay coating. 2.02 Note: Carbon of no more than 1% on fraction passing the #40 sieve. Note: "C" Freeze and Abrasion requirements are equivalent to those of eith Note: Recycled PCC must meet gradation and sampling frequency of the in	1.00 10 45 5 (+#16) Note: Material shall be free of visible clay and objectionable clay coating. 2.02 2.03 Note: Carbon of no more than 1% on fraction passing the #40 sieve. 4 Note: "C" Freeze and Abrasion requirements are equivalent to those of either 4120.04 Note: Recycled PCC must meet gradation and sampling frequency of the intended pro-	1.00 10 45 5 (+#16) 0.7 Note: Material shall be free of visible clay and objectionable clay coating. 2.02 2.03 Note: Carbon of no more than 1% on fraction passing the #40 sieve. 3.00 Note: "C" Freeze and Abrasion requirements are equivalent to those of either 4120.04 or 4120. Note: Recycled PCC must meet gradation and sampling frequency of the intended product.	1.00 10 45 5 (+#16) 0.7 Note: Material shall be free of visible clay and objectionable clay coating. 2.02 2.03 Note: Carbon of no more than 1% on fraction passing the #40 sieve. 4 Note: "C" Freeze and Abrasion requirements are equivalent to those of either 4120.04 or 4120.05. Note: Recycled PCC must meet gradation and sampling frequency of the intended product.	1.00 10 45 5 (+#16) 0.7 29 Note: Material shall be free of visible clay and objectionable clay coating. 2.02 30,31 Note: Carbon of no more than 1% on fraction passing the #40 sieve. 3.00 Note: "C" Freeze and Abrasion requirements are equivalent to those of either 4120.04 or 4120.05. Note: Recycled PCC must meet gradation and sampling frequency of the intended product.